

Regression Specifications & Interpretations

Table of contents

1	Conventions	1
2	r3 — Deficit Tweeting: Legislative Windows, Partisanship & Power	2
3	r4 — Pre/Post/Passage Effects	2
4	r5 — Majority Context: Presidency ($\text{LegWin} \times \text{GOP}$)	2
5	r6 — Majority Context: Chamber + Presidency	3
6	r7 — Mechanism: Partisanship \times Legislative Windows	3
7	r8 — Mechanism: Fiscal Scale \times Legislative Windows	4
8	r9 — Who Governs? GOP vs Dem Under Trifectas	4
9	r13 — Extensive Margin (Binary, from r9)	4
10	r14 — Extensive Margin (Binary, from r6)	4

1 Conventions

- Outcome (Y_{it}): share of member (i)'s tweets in month (t) that are deficit-related (r3–r12).
Extensive-margin models (r13–r14) use ($1\{Y_{it} > 0\}$).
- All models are member–month **logits** with **member fixed effects** ($_i$) and **month fixed effects** ($_t$); SEs two-way clustered by **member** and **month**.
- Indicators & covariates: $\text{GOP}(_i)$, $\text{LegWin}(_t)$, $\text{PartisanWin}(_t)$, $\text{COVID}(_t)$, $\text{IRA}(_t)$, $\text{TweetPart}(_t)$ (z), $\text{DefMag}(_t)$ (z), $\text{control_combo}(_t)$, $\text{gop_trifecta}(_t)$.

2 r3 — Deficit Tweeting: Legislative Windows, Partisanship & Power

Baseline: Democrats, outside legislative windows.

Model

$$\begin{aligned}\text{logit}(Y_{it}) = & \alpha_i + \gamma_t + \beta_1 \text{GOP}_i + \beta_2 \text{LegWin}_t + \beta_3 \text{PartisanWin}_t \\ & + \beta_4 \text{COVID}_t + \beta_5 \text{IRA}_t + \beta_6 \text{TweetPart}_t + \beta_7 \text{DefMag}_t \\ & + \beta_8(\text{GOP}_i \times \text{LegWin}_t) + \beta_9(\text{GOP}_i \times \text{PartisanWin}_t) \\ & + \beta_{10}(\text{GOP}_i \times \text{COVID}_t) + \beta_{11}(\text{GOP}_i \times \text{IRA}_t) \\ & + \beta_{12}(\text{GOP}_i \times \text{TweetPart}_t) + \beta_{13}(\text{GOP}_i \times \text{DefMag}_t) + \varepsilon_{it}\end{aligned}$$

3 r4 — Pre/Post/Passage Effects

Baseline: Democrats, outside legislative windows.

Model

$$\begin{aligned}\text{logit}(Y_{it}) = & \alpha_i + \gamma_t + \beta_1 \text{GOP}_i + \beta_2 \text{PreWin}_t + \beta_3 \text{PassageWin}_t + \beta_4 \text{PostWin}_t \\ & + \beta_5 \text{PartisanWin}_t + \beta_6 \text{TweetPart}_t + \beta_7 \text{DefMag}_t \\ & + \beta_8(\text{GOP}_i \times \text{PreWin}_t) + \beta_9(\text{GOP}_i \times \text{PassageWin}_t) \\ & + \beta_{10}(\text{GOP}_i \times \text{PostWin}_t) + \beta_{11}(\text{GOP}_i \times \text{PartisanWin}_t) \\ & + \beta_{12}(\text{GOP}_i \times \text{TweetPart}_t) + \beta_{13}(\text{GOP}_i \times \text{DefMag}_t) + \varepsilon_{it}\end{aligned}$$

4 r5 — Majority Context: Presidency (LegWin \times GOP)

Baseline: Democrats, presidency majority, outside legislative windows.

Model

$$\begin{aligned}\text{logit}(Y_{it}) = & \alpha_i + \gamma_t + \beta_1 \text{GOP}_i + \beta_2 \text{LegWin}_t + \beta_3 \text{MinorityPres}_t \\ & + \beta_4(\text{GOP}_i \times \text{LegWin}_t) + \beta_5(\text{GOP}_i \times \text{LegWin}_t \times \text{MinorityPres}_t) \\ & + \beta_6(\text{GOP}_i \times \text{PartisanWin}_t) + \beta_7(\text{GOP}_i \times \text{COVID}_t) \\ & + \beta_8(\text{GOP}_i \times \text{IRA}_t) + \beta_9(\text{GOP}_i \times \text{TweetPart}_t) \\ & + \beta_{10}(\text{GOP}_i \times \text{DefMag}_t) + \varepsilon_{it}\end{aligned}$$

5 r6 — Majority Context: Chamber + Presidency

Baseline: Democrats, no control, outside legislative windows.

Model

$$\begin{aligned}\text{logit}(Y_{it}) = & \alpha_i + \gamma_t + \beta_1 \text{GOP}_i + \beta_2 \text{control_combo}_t \\ & + \beta_3(\text{GOP}_i \times \text{LegWin}_t) + \beta_4(\text{LegWin}_t \times \text{control_combo}_t) \\ & + \beta_5(\text{GOP}_i \times \text{PartisanWin}_t) + \beta_6(\text{GOP}_i \times \text{COVID}_t) \\ & + \beta_7(\text{GOP}_i \times \text{IRA}_t) + \beta_8(\text{GOP}_i \times \text{TweetPart}_t) \\ & + \beta_9(\text{GOP}_i \times \text{DefMag}_t) + \varepsilon_{it}\end{aligned}$$

6 r7 — Mechanism: Partisanship × Legislative Windows

Baseline: Democrats, outside legislative windows, mean bill partisanship.

Model

$$\begin{aligned}\text{logit}(Y_{it}) = & \alpha_i + \gamma_t + \beta_1 \text{GOP}_i + \beta_2 \text{LegWin}_t + \beta_3 \text{TweetPart}_t \\ & + \beta_4(\text{GOP}_i \times \text{TweetPart}_t) + \beta_5(\text{GOP}_i \times \text{LegWin}_t) \\ & + \beta_6(\text{GOP}_i \times \text{LegWin}_t \times \text{TweetPart}_t) \\ & + \beta_7(\text{GOP}_i \times \text{PartisanWin}_t) + \beta_8(\text{GOP}_i \times \text{COVID}_t) \\ & + \beta_9(\text{GOP}_i \times \text{IRA}_t) + \beta_{10}(\text{GOP}_i \times \text{DefMag}_t) + \varepsilon_{it}\end{aligned}$$

7 r8 — Mechanism: Fiscal Scale × Legislative Windows

Baseline: Democrats, outside legislative windows, mean deficit magnitude.

Model

$$\begin{aligned}\text{logit}(Y_{it}) = & \alpha_i + \gamma_t + \beta_1 \text{GOP}_i + \beta_2 \text{LegWin}_t + \beta_3 \text{DefMag}_t \\ & + \beta_4(\text{GOP}_i \times \text{DefMag}_t) + \beta_5(\text{GOP}_i \times \text{LegWin}_t) \\ & + \beta_6(\text{GOP}_i \times \text{LegWin}_t \times \text{DefMag}_t) \\ & + \beta_7(\text{GOP}_i \times \text{PartisanWin}_t) + \beta_8(\text{GOP}_i \times \text{COVID}_t) \\ & + \beta_9(\text{GOP}_i \times \text{IRA}_t) + \beta_{10}(\text{GOP}_i \times \text{TweetPart}_t) + \varepsilon_{it}\end{aligned}$$

8 r9 — Who Governs? GOP vs Dem Under Trifectas

Baseline: Democratic trifecta, outside legislative windows.

Model

$$\begin{aligned}\text{logit}(Y_{it}) = & \alpha_i + \gamma_t + \beta_1 \text{GOP}_i + \beta_2 \text{LegWin}_t + \beta_3 \text{gop_trifecta}_t \\ & + \beta_4(\text{GOP}_i \times \text{LegWin}_t) + \beta_5(\text{GOP}_i \times \text{gop_trifecta}_t) \\ & + \beta_6(\text{GOP}_i \times \text{LegWin}_t \times \text{gop_trifecta}_t) \\ & + \beta_7(\text{GOP}_i \times \text{PartisanWin}_t) + \beta_8(\text{GOP}_i \times \text{IRA}_t) \\ & + \beta_9(\text{GOP}_i \times \text{TweetPart}_t) + \beta_{10}(\text{GOP}_i \times \text{DefMag}_t) + \varepsilon_{it}\end{aligned}$$

9 r13 — Extensive Margin (Binary, from r9)

Model

$$\text{logit}(1\{Y_{it} > 0\}) = \alpha_i + \gamma_t + [\text{same covariates as r9 with corresponding betas}] + \varepsilon_{it}$$

10 r14 — Extensive Margin (Binary, from r6)

Model

$$\text{logit}(1\{Y_{it} > 0\}) = \alpha_i + \gamma_t + [\text{same covariates as r6 with corresponding betas}] + \varepsilon_{it}$$